1997 ANNUAL INDEX

1997 SUBJECT INDEX

A

APPLICATIONS *see Case Studies, Development, Tools*

ARCHITECTURE

"Architectural Styles, Design Patterns, and Objects," Robert Monroe, Andrew Kompanek, Ralph Melton, and David Garlan, Jan.-Feb., pp. 43-52.

"Enduring Monument to Software Architecture," (review of *Software Architecture: Perspectives on an Emerging Discipline*) Shari Lawrence Pfleeger, Bookshelf, July-Aug., pp. 118.

"A Generic Model for Software Architectures," Wilhelm Rossak, Vassilka Kirova, Leon Jololian, Harold Lawson, and Tamar Zemel, July-Aug., pp. 84-92.

"Idioms and Patterns as Architectural Literature," James Coplien, Jan.-Feb., pp. 36-42.

"Recursive Design of an Application-Independent Architecture," Sally Shlaer and Stephen Mellor, Jan.-Feb., pp. 61-72.

"A Unified Object Topology," William Tepfenhart and James Cusick, Jan.-Feb., pp. 31-35.

"Using Patterns to Improve Our Architectural Vision," Norman Kerth and Ward Cunningham, Jan.-Feb., pp. 53-59.

"Why Explore Object Methods, Patterns, and Architectures?" (guest editor's introduction), Stephen Mellor and Ralph Johnson, Jan.-Feb., pp. 27-30.

B

BOOK REVIEWS

"Bringing Function Points Down to Earth" (review of *Measuring the Software Process: A Practical Guide to Functional Measurements*), Robert Ferguson, Bookshelf, Jan.-Feb., pp. 87.

"Building a New Software Design Paradigm" (review of *Beyond Programming: To a New Era of Design*), Natalia Juristo, Bookshelf, July-Aug., pp. 116-117.

"Clarification? Review Revisited," William Stallings, Letters, July-Aug., pp. 14.

"Class Act in Parallel Programming" (review of *Practical Parallel Programming*), Nan C. Schaller, Nov.-Dec., p. 107.

"Enduring Monument to Software Architecture," (review of *Software Architecture: Perspectives on an Emerging Discipline*) Shari Lawrence Pfleeger, Bookshelf, July-Aug., pp. 118.

"First-Year C++ Text Outdated by Java" (review of *Programming with Class: A C++ Introduction to Computer Science*), Gregory Wilson, Bookshelf, May-June, pp. 122.

"A Guide that Leaves You Stranded in the Wilderness" (review of *Executive Guide to Preventing Information Technology Disasters*), Mike Lutz, Bookshelf, May-June, pp. 124.

"Help with Software Assessment" (review of *Software Assessment: Reliability, Safety, Testability*), Mladen Vouk, Bookshelf, Mar.-Apr., pp. 131-132.

"Implementing a Pascal Compiler Using OOP" (review of *Object-Oriented Compiler Construction*), Daniel Salomon, Bookshelf, Sept.-Oct., pp. 117-118.

"Investing in a European Test-Tools Tome" (review of *CAST Report, Computer Aided Software Testing, 3rd edition*), Hans Schaefer, Bookshelf, Jan.-Feb., pp. 86.

"Learning from Other's OO Mistakes" (review of *Pitfalls of Object-Oriented Development*), Daniel Salomon, Bookshelf, Sept.-Oct., pp. 115-116.

"The Long and the Short of Interface Design" (review of *Designing Visual Interfaces*), Gregory Wilson, Bookshelf, Mar.-Apr., pp. 132.

"One Thread Up, One Thread Down" (review of *Programming With Threads and Threads Primer: A Guide to Multi-threaded Programming*), Gregory Wilson, Bookshelf, Sept.-Oct., pp. 116.

"OO Analysis and Design Basics" (review of *The Object Primer: The Application Developer's Guide to Object-Orientation*), Hank Etlinger, Bookshelf, Mar.-Apr., pp. 130-131.

"Petrifying Survey of Jurassic Operating Systems" (review of *Operating Systems*), Jacques Schlesinger, Bookshelf, May-June, pp. 123.

"Project Management: How Far Have We Come?" (review of *Managing a Programming Project—Process and People*), Timothy D. Wells, Bookshelf, May-June, pp. 124.

"Shaping a Net that Serves Us All" (review of *Civilizing Cyberspace*), Robert Gougher, Bookshelf, Sept.-Oct., pp. 117.

"Testing Title Suffers from Too Narrow a Focus" (review of *The Craft of Software Testing*), Gregory Wilson, Bookshelf, May-June, pp. 123.

"A Watershed Software Reliability Book" (review of *Handbook of Software Reliability Engineering*), Boris Beizer, Bookshelf, July-Aug., pp. 114-115.

"Why the Dwarf King Died" (review of *King of the Seven Dwarfs: General Electric's Ambiguous Challenge to the Computer Industry*), Natalia Juristo, Nov.-Dec., p. 104.

"Wonderful Book, But a Sad Commentary" (review of *Death March: The Complete Software Developer's Guide to Surviving "Mission Impossible" Projects*), Timothy D. Wells, Nov.-Dec., pp. 103-104.

BUSINESS ISSUES *also see Globalization, Legal Issues, Management, Reuse*

"Achieving Leaner Software," Steve McConnell, Best Practices, Nov.-Dec., pp. 128-127.

"Annualized Software Delivery," Steve McConnell, Best Practices, Jan.-Feb., pp. 103-104.

"The Cost-Estimation Problem: How Solved Is It?" Lawrence H. Putnam and Ware Myers, Manager, Nov.-Dec., pp. 105-107.

"A Cost-Value Approach for Prioritizing Requirements," Joachim Karlsson and Kevin Ryan, Sept.-Oct., pp. 67-74.

"DTV Agreement Good for Software Developers," Stephen Barlas, In the News, Jan.-Feb., pp. 88, 93.

"Estimates, Uncertainty, and Risk," Barbara Kitchenham and Stephen Linkman, May-June, pp. 69-74.

"Schedule for World Software Tariff Cuts Imminent," Stephen Barlas, In the News, Mar.-Apr., pp. 137.

"Slow Response to Year 2000 Problem" (interview with Capers Jones), In the News, May-June, pp. 114-115.

"Snapshots from Industry," John Charles, In the News, May-June,

0740-7459/97/$10.00 © 1997 IEEE

pp. 112-113, 120-121.
"Superdistribution and the Economics of Bits," Brad Cox, Manager, Jan.-Feb., pp. 22-24.
"What Makes Inspections Work?," Adam Porter and Lawrence Votta, Quality Time, Nov.-Dec., pp. 99-102.
"Why Build Software? An Important Question," Ken Porter, Letters, May-June, pp. 13.
"Year 2000 Tool Classification Scheme," David Sharon, Toolbox, July-Aug., pp. 107-111.

C

CAPABILITY MATURITY MODEL *see Process Models, Process Improvement*

CERTIFICATION *see Legal Issues, Professional Issues*

CLIENT-SERVER *see Distributed Development Systems, Legacy Systems, Reengineering*

CONCURRENT DEVELOPMENT *see Development, Programming*

CONFERENCES
"The Appeal of Internet World Is Apparently Global," Keri Schreiner, In the News, May-June, pp. 117.
"Macworld: A Patient Perspective," Neil Kleinman, In the News, Mar.-Apr., pp. 133, 137.
"Navigating the Maintenance Waters at ICSM '96," Nicholas Zvegintzov, In the News, Jan.-Feb., pp. 93.
"Networld+Interop 97: Internet Explorer Takes a Bashing," In the News, May-June, pp. 118.
"Storm Offers Main Excitement at Biggest Comdex Yet," Sorel Reisman, In the News, Jan.-Feb., pp. 91-92.

COPYRIGHT *see Legal Issues*

COST-BENEFIT ANALYSIS *see Business Issues, Management*

D

DECOMPILATION *see Environments, Tools*

DESIGN *also see Object Orientation, Prototyping, Requirements, User Interfaces*
"Building a New Software Design Paradigm" (review of *Beyond Programming: To a New Era of Design*), Natalia Juristo, Bookshelf, July-Aug., pp. 116-117.
"N-Version Design versus One Good Version," Les Hatton, Nov.-Dec., pp. 71-76.
"Systematic Integration of Design Methods," Xiping Song, Mar.-Apr., pp. 107-117.

DEVELOPMENT *also see Business Issues, Case Studies, Design, Globalization, Management, Object Orientation, Process Models, Programming, Prototyping, Rapid Application Development*
"Achieving Leaner Software," Steve McConnell, Best Practices, Nov.-Dec., pp. 128-127.
"Annualized Software Delivery," Steve McConnell, Best Practices, Jan.-Feb., pp. 103-104.
"Classifying Software-Based Cache Coherence Solutions," Igor Tartalja and Veljko Milutinovic, May-June, pp. 90-101.
"A Cost-Value Approach for Prioritizing Requirements," Joachim Karlsson and Kevin Ryan, Sept.-Oct., pp. 67-74.
"Developing Software Using OVID," Dave Roberts, Dick Berry, Scott Isensee, and John Mullaly, July-Aug., pp. 51-57.
"Document Ranking and the Vector-Space Model," Dik Lee, Huei Chuang, and Kent Seamons, Mar.-Apr., pp. 67-75.
"The Foolishness of Fashion," Maarten Boasson, Insider, July-Aug., pp. 18.
"Is Pipe Metaphor a Wash Out?" Karl Frank, Letters, Sept.-Oct., pp. 15-17.
"The Mousetrap Paradigm," Robert Cochran, Insider, Sept.-Oct., pp. 26.
"Product, Not Process: A Parable," James Sanders, From the Editor, Mar.-Apr., pp. 6-8.
"Software's Ten Essentials," Steve McConnell, Best Practices, Mar.-Apr., pp. 144-143.
"When Past Solutions Cause Future Problems," Carlo Pescio, Soapbox, Sept.-Oct., pp. 19-21.
"Who Ya Gonna Call? You're on Your Own," Wayne Gray, Point, July-Aug., pp. 26, 28.
"Wonderful Book, But a Sad Commentary" (review of *Death March: The Complete Software Developer's Guide to Surviving "Mission Impossible" Projects*), Timothy D. Wells, Nov.-Dec., pp. 103-104.

DISTRIBUTED DEVELOPMENT/SYSTEMS *also see Communication, Databases, Development, Outsourcing*
"Class Act in Parallel Programming" (review of *Practical Parallel Programming*), Nan C. Schaller, Nov.-Dec., p. 107.
"Modeling Concurrent Software," Bo Sanden, Sept.-Oct., pp. 93-100.
"Rapid Prototyping for Distributed Virtual Environments," Martin Stytz, Terry Adams, Brian Garcia, Steven Sheasby, and Brian Zurita, Sept.-Oct., pp. 83-92.

DOCUMENTATION
"Document Ranking and the Vector-Space Model," Dik Lee, Huei Chuang, and Kent Seamons, Mar.-Apr., pp. 67-75.
"Software's Future Is in the Cards," Alan Davis, From the Editor, July-Aug., pp. 4-8.

E

EDUCATION *also see Management, Research*
"Achieving Synergy in Collaborative Education," Gerald M. Powell, Jorge L. Diaz-Herrera, and Dennis J. Turner, Nov.-Dec., pp. 58-65.
"Challenges in Computer Security Education," Cynthia Irvine, In the News, Sept.-Oct., pp. 110-111.

"Collaborations: Closing the Industry–Academia Gap," Kathy Beckman, Neal Coulter, Soheil Khajenoori, and Nancy R. Mead, Nov.-Dec., pp. 49-57.
"Developing an Accredited Software Engineering Program," Philip Dart, Lorraine Johnston, Cameron Schmidt, and Liz Sonenberg, Nov.-Dec., pp. 66-70.
"Introducing Software Engineers to the Real World," Ray Dawson, and Ron Newsham, Nov.-Dec., pp. 37-43.
"A Missing Link in Software Engineering," Steve Tockey, Nov.-Dec., pp. 31-36.
"SE Education: We're on Our Own," James Bach, Point, Nov.-Dec., pp. 26, 28.
SE Education: What Academia Can Do," W. Michael McCracken, Counterpoint, Nov.-Dec., pp. 27, 29.
"Software Engineering Education: A Modest Proposal," Thomas B. Hilburn, Nov.-Dec., pp. 44-48.
"Split Ends: Labor Shortage and the CS–IS Divide," Kent Sandoe, Soapbox, Nov.-Dec., pp.19-21.
"The State of Software Engineering Education and Training" (guest editor's introduction), Nancy Mead, Carter, David, and Lutz, Michael, Nov.-Dec., pp. 22-25.

ENCRYPTION *also see Legal Issues, Security*
"BSA Pushes for Override of Encryption Guidelines," Stephen Barlas, In the News, Mar.-Apr., pp. 136.

ENVIRONMENTS *also see Tools*
"A Complete Software Engineering Environment," David Sharon and Tracey Anderson, Toolbox, Mar.-Apr., pp. 123-125.

ESTIMATION METHODS *see Business Issues, Management*

EXPERIMENTAL METHODS *also see Research*

F

FORMAL METHODS *also see Quality, Safety-Critical Systems*
"Cleanroom Process Model: A Critical Examination," Boris Beizer, Soapbox, Mar.-Apr., pp. 14-16.
"Clearing the Cleanroom Air," Carmen Trammell, Letters, July-Aug., pp. 10, 12.
"A Formal Method for Building Concurrent Real-Time Software," Colin Fidge, Peter Kearney, and Mark Utting, Mar.-Apr., pp. 99-106.
"Formal Methods: Promises and Problems," Luqi and Joseph Goguen, Jan.-Feb., pp. 73-85.
"Hobson's Choice, Cleanroom Style," Robert Britcher, Letters, July-Aug., pp. 12-13.
"Orienting Cleanroom Analysis and Design," Kenneth Boyer, Letters, July-Aug., pp. 13-14.
"A Truce? Reentering Cleanroom," Michael Deck, Letters, Sept.-Oct., pp. 8-12.

FRAMEWORKS *also see Object Orientation, Reuse*
"Avoiding A Middleware Muddle," Jess Thompson, Toolbox, Nov.-Dec., pp. 92-95.

G

GLOBALIZATION *also see Distributed Development/Systems, Outsourcing*
"The Appeal of Internet World Is Apparently Global," Keri Schreiner, In the News, May-June, pp. 117.
"Schedule for World Software Tariff Cuts Imminent," Stephen Barlas, In the News, Mar.-Apr., pp. 137.
GRAPHICS *see User Interfaces*

I

INFORMATION TECHNOLOGY *see Business Issues, Distributed Systems, Internet, Legacy Systems, Reengineering, Reuse*

INTEGRATED PROJECT-SUPPORT ENVIRONMENT *see Environments, Tools*

INTEGRATION
"Systematic Integration of Design Methods," Xiping Song, Mar.-Apr., pp. 107-117.

INTERFACES *see User Interfaces*

INTERNATIONALIZATION *see Globalization*

INTERNET
"The Appeal of Internet World Is Apparently Global," Keri Schreiner, In the News, May-June, pp. 117.
"First-Year C++ Text Outdated by Java" (review of *Programming with Class: A C++ Introduction to Computer Science*), Gregory Wilson, Bookshelf, May-June, pp. 122.
"Internet2 Promises Radical Change," John Charles, In The News, Nov.-Dec., pp. 108-109, 112.
"Navigating the Applet-Browser Divide," Erika Kindlund, Interface, Sept.-Oct., pp. 22-25.
"Networld+Interop 97: Internet Explorer Takes a Bashing," In the News, May-June, pp. 118.
"Shaping a Net that Serves Us All" (review of *Civilizing Cyberspace*), Robert Gougher, Bookshelf, Sept.-Oct., pp. 117.
"Something is Better than Nothing," Jakob Nielsen, Counterpoint, July-Aug., pp. 27-28.
"Web Interests Tangle over DNS Proposal," John Charles, In the News, July-Aug., pp. 100-101, 105.
"Will Linking Battle Unravel the Web?" John Charles, In the News, Sept.-Oct., pp. 106-107.

ISO 9000 *see Process Improvement, Process Models*

L

LANGUAGES *see Programming*

LEGACY SYSTEMS *also see Reengineering*
"Managing Risk in Software Maintenance," Robert Charette, Kevin MacG. Adams, and Mary White, May-June, pp. 43-50.
"When Past Solutions Cause Future Problems," Carlo Pescio, Soapbox, Sept.-Oct., pp. 19-21.

LEGAL ISSUES *also see Professional Issues*
"Blown Schedules: Debatable 'Implications,'" Kenneth Nichols, Letters, Mar.-Apr., pp. 10.
"Proposed Amendment May Keep Patent Applications under Wraps," Stephen Barlas, In the News, July-Aug., pp. 104.
"Software 'Engineer'? Time Will Tell," Karl Dakin, Softlaw, May-June, pp. 105-106.
"UCC Changes Pose Problems for Developers," Cem Kaner and Brian Lawrence, Softlaw, Mar.-Apr., pp. 139-143.
"What If There Were No Software Piracy?" Karl Dakin, Softlaw, Jan.-Feb., pp. 20-21.

M

MAINTENANCE *see Development, Legacy Systems*

MANAGEMENT *also see Business Issues, Development, Globalization,*

People Issues, Process Improvement, Quality, Risk Management
"Breathing New Life into the Waterfall Model," Christopher Lott, Manager, Sept.-Oct., pp. 103-105.
"The Cost-Estimation Problem: How Solved Is It?" Lawrence H. Putnam and Ware Myers, Manager, Nov.-Dec., pp. 105-107.
"How Experienced Project Managers Assess Risk," Tony Moynihan, May-June, pp. 35-41.
"Managing Change for Rapid Development," Gene Forte, Manager, Mar.-Apr., pp. 120-122.
"Managing Maniacs: A Commonsense Approach" (interview with Ken Whitaker), In the News, July-Aug., pp. 102-103.
"OO Project Management: The Need for Process," Brian Henderson-Sellers, Manager, July-Aug., pp. 96-97.
"Project Management: How Far Have We Come?" (review of *Managing a Programming Project—Process and People*), Timothy D. Wells, Bookshelf, May-June, pp. 124.
"The Project Scoping Gamble," Brian Lawrence and Bob Johnson, Manager, May-June, pp. 107-109.
"Right Place, Right Time" (interview with Tim Lister), In the News, Mar.-Apr., pp. 134-135.
"Superdistribution and the Economics of Bits," Brad Cox, Manager, Jan.-Feb., pp. 22-24.
"Tool Support for Project Tracking," Steve McConnell, Best Practices, Sept.-Oct., pp. 119-120.
"Who's Really to Blame for Blown Schedules?" Mike DePasquale, Letters, May-June, pp. 11.
"Wonderful Book, But a Sad Commentary" (review of *Death March: The Complete Software Developer's Guide to Surviving "Mission Impossible" Projects*), Timothy D. Wells, Nov.-Dec., pp. 103-104.

MEASUREMENT *see Experimental Methods, Metrics, Process Improvement, Process Models*

METRICS
"Assessing Measurement" (guest editor's introduction), Shari Lawrence Pfleeger, Mar.-Apr., pp. 25-26.
"Bringing Function Points Down to Earth" (review of *Measuring the Software Process: A Practical Guide to Functional Measurements*), Robert Ferguson, Bookshelf, Jan.-Feb., pp. 87.
"Did Measurement Issue Miss the Mark?" Capers Jones, Letters, Sept.-Oct., pp. 8.
"Establishing Software Measurement Programs," Raymond Offen and Ross Jeffery, Mar.-Apr., pp. 45-53.
"Implementing Effective Software Metrics Programs," Tracy Hall and Norman Fenton, Mar.-Apr., pp. 55-65.
"The Problem with Function Points," Barbara Kitchenham, Counterpoint, Mar.-Apr., pp. 29, 31.
"Status Report on Software Measurement," Shari Lawrence Pfleeger, Ross Jeffery, Bill Curtis, and Barbara Kitchenham, Mar.-Apr., pp. 33-43.
"Why We Should Use Function Points," Sean Furey, Point, Mar.-Apr., pp. 28, 30.

MIDDLEWARE *see Development, Frameworks, Object Orientation*

MIGRATION *see Legacy Systems, Reverse Engineering*

MODELING *see Design, Management*

O

OBJECT ORIENTATION *also see Design, Development, Reuse*
"Architectural Styles, Design Patterns, and Objects," Robert Monroe, Andrew Kompanek, Ralph Melton, and David Garlan, Jan.-Feb., pp. 43-52.
"Developing Software Using OVID," Dave Roberts, Dick Berry, Scott Isensee, and John Mullaly, July-Aug., pp. 51-57.
"Implementing a Pascal Compiler Using OOP" (review of *Object-Oriented Compiler Construction*), Daniel Salomon, Bookshelf, Sept.-Oct., pp. 117-118.
"Learning from Other's OO Mistakes" (review of *Pitfalls of Object-Oriented Development*), Daniel Salomon, Bookshelf, Sept.-Oct., pp. 115-116.
"OO Analysis and Design Basics" (review of *The Object Primer: The Application Developer's Guide to Object-Orientation*), Hank Etlinger, Bookshelf, Mar.-Apr., pp. 130-131.
"OO Project Management: The Need for Process," Brian Henderson-Sellers, Manager, July-Aug., pp. 96-97.
"Professionalism through OO and Reuse," Sadakazu Watanabe, Insider, Jan.-Feb., pp. 26.
"A Unified Object Topology," William Tepfenhart and James Cusick, Jan.-Feb., pp. 31-35.
"Why Explore Object Methods, Patterns, and Architectures?" (guest editor's introduction), Stephen Mellor and Ralph Johnson, Jan.-Feb., pp. 27-30.

OPERATING SYSTEMS
"Petrifying Survey of Jurassic Operating Systems" (review of *Operating Systems*), Jacques Schlesinger, Bookshelf, May-June, pp. 123.

P

PARALLEL PROCESSING *see Distributed Development/Systems, Programming*

PEOPLE ISSUES *also see Business Issues, Management*
"Designing Interfaces for Professional Users," Robin Jeffries, Interface, Nov.-Dec., pp. 89-91.
"The Fundamentals of Information Security," Charles Pfleeger, Quality Time, Jan.-Feb., pp. 15-16, 60.
"Learning from the Real World," Jakob Nielsen, Interface, July-Aug., pp. 98-99.
"Let's Ask the Users," Jakob Nielsen, Interface, May-June, pp. 110-111.
"Navigating the Applet-Browser Divide," Erika Kindlund, Interface, Sept.-Oct., pp. 22-25.
"Surveying the Status: Women in Engineering," Julie Sheridan-Eng, In the News, May-June, pp. 116.
"The Use and Misuse of Focus Groups," Jakob Nielsen, Interface, Jan.-Feb., pp. 94-95.

PIRACY *see Legal Issues*

PROCESS ASSESSMENT *see Process Improvement, Process Models*

PROCESS IMPROVEMENT *also see Management, Quality*
"Cleanroom Process Model: A Critical Examination," Boris Beizer, Soapbox, Mar.-Apr., pp. 14-16.
"Clearing the Cleanroom Air," Carmen Trammell, Letters, July-Aug., pp. 10, 12.
"Help with Software Assessment" (review of *Software Assessment: Reliability, Safety, Testability*), Mladen Vouk, Bookshelf, Mar.-Apr., pp. 131-132.
"Hobson's Choice, Cleanroom Style," Robert Britcher, Letters, July-Aug., pp. 12-13.
"How Software Process Improvement Helped Motorola," Michael Diaz and Joseph Sligo, Sept.-Oct., pp. 75-81.
"OO Project Management: The Need for Process," Brian Henderson-Sellers, Manager, July-Aug., pp. 96-97.
"Orienting Cleanroom Analysis and Design," Kenneth Boyer, Letters, July-Aug., pp. 13-14.
"Parable or Mirror? In Praise of Beethoven," Garth Klatt, Letters,

Sept.-Oct., pp. 12-14.
"Product, Not Process: A Parable," James Sanders, From the Editor, Mar.-Apr., pp. 6-8.
"A Truce? Reentering Cleanroom," Michael Deck, Letters, Sept.-Oct., pp. 8-12.

PROCESS MANAGEMENT *see Development, Management, Tools*

PROCESS MODELS *also see Metrics, Process Improvement*
"Breathing New Life into the Waterfall Model," Christopher Lott, Manager, Sept.-Oct., pp. 103-105.
"Can Clean Pipes Produce Dirty Water?" Jeffrey Voas, Quality Time, July-Aug., pp. 93-95.
"Can a Manufacturing Quality Model Work for Software?" Robert Binder, Quality Time, Sept.-Oct., pp. 101-102, 105.

PROFESSIONAL ISSUES
"Alternative Healing Perspective," Pankaj Jalote, Letters, Mar.-Apr., p. 13.
"Analogy Breakdown," Tom Adams, Letters, May-June, p. 12.
"And the Healing Continues...," Mike Stranks, Letters, Mar.-Apr., p. 12.
"The Art of Creating a Discipline," Bryan Schmidt, Letters, May-June, pp. 11-12.
"Balancing Experience and Speculation," Letters, Nov.-Dec., pp. 14, 16.
"Between Scylla and Charybdis," Alan Davis, From the Editor, Sept.-Oct., pp. 4-6.
"Capitalizing on Our Experience," Todd Webb, Nov.-Dec., pp. 84-85.
"The Foolishness of Fashion," Maarten Boasson, Insider, July-Aug., pp. 18.
"A Guide that Leaves You Stranded in the Wilderness" (review of *Executive Guide to Preventing Information Technology Disasters*), Mike Lutz, Bookshelf, May-June, pp. 124.
"Instability and Uncertainty Are Our Challenge," Tomoo Matsubara, Nov.-Dec., pp. 83-84.
"The Maturity Of Software Engineering," Mauro Pezzé, Nov.-Dec., p. 86.
"Professionalism through OO and Reuse," Sadakazu Watanabe, Insider, Jan.-Feb., pp. 26.
"The Programmer Writing," Steve McConnell, Best Practices, July-Aug., pp. 120-119.
"Right Place, Right Time" (interview with Tim Lister), In the News, Mar.-Apr., pp. 134-135.
"The Road to Maturity: Navigating between Craft and Science," Christof Ebert, Nov.-Dec., pp. 77-82.
"Snapshots from Industry," John Charles, In the News, May-June, pp. 112-113, 120-121.
"Software 'Engineer'? Time Will Tell," Karl Dakin, Softlaw, May-June, pp. 105-106.
"Toward a Unified Field of SE Research and Practice," Olav W. Bertelsen, Nov.-Dec., pp. 87-88.
"UCC Changes Pose Problems for Developers," Cem Kaner and Brian Lawrence, Softlaw, Mar.-Apr., pp. 139-143.
"What If There Were No Software Piracy?" Karl Dakin, Softlaw, Jan.-Feb., pp. 20-21.
"Why the Dwarf King Died" (review of *King of the Seven Dwarfs: General Electric's Ambiguous Challenge to the Computer Industry*), Natalia Juristo, Nov.-Dec., p. 104.

PROGRAMMING *also see Development, Reuse*
"Another Look at Software "'Essentials,'" Steve Rinn, Letters, July-Aug., pp. 14.
"Class Act in Parallel Programming" (*review of* Practical Parallel Programming), Nan C. Schaller, Nov.-Dec., p. 107.
"First-Year C++ Text Outdated by Java" (review of *Programming with Class: A C++ Introduction to Computer Science*), Gregory Wilson, Bookshelf, May-June, pp. 122.
"Gauging Software Readiness with Defect Tracking," Steve McConnell, Best Practices, May-June, pp. 135-136.
"Implementing a Pascal Compiler Using OOP" (review of *Object-Oriented Compiler Construction*), Daniel Salomon, Bookshelf, Sept.-Oct., pp. 117-118.
"One Thread Up, One Thread Down" (review of *Programming With Threads and Threads Primer: A Guide to Multi-threaded Programming*), Gregory Wilson, Bookshelf, Sept.-Oct., pp. 116.
"The Programmer...Fishing?" Robert Fritz, Letters, Sept.-Oct., pp. 14-15.
"The Programmer Writing," Steve McConnell, Best Practices, July-Aug., pp. 119-120.
"Putting Code in Its Place," Denis Meredith, Letters, May-June, p. 14.
"Software's Ten Essentials," Steve McConnell, Best Practices, Mar.-Apr., p. 144.

PROTOTYPING *also see Development, Rapid Application Development*

Q

QUALITY *also see Inspection, Management, Process Improvement, Testing*
"Can a Manufacturing Quality Model Work for Software?" Robert Binder, Quality Time, Sept.-Oct., pp. 101-102, 105.
"Can Clean Pipes Produce Dirty Water?" Jeffrey Voas, Quality Time, July-Aug., pp. 93-95.
"Faulty Assumptions? Quality vs. Value," Nancy Eickelman, Letters, Mar.-Apr., pp. 10-12.
"Gauging Software Readiness with Defect Tracking," Steve McConnell, Best Practices, May-June, pp. 135-136.
"Issues in Software Inspection," Don O'Neill, Soapbox, Jan.-Feb., pp. 18-19.
"Predicting How Badly 'Good' Software Can Behave," Jeffrey Voas Frank Charron, Gary McGraw, Keith Miller, and Michael Friedman, July-Aug., pp. 73-83.
"Quality, Not Quantity, Key to Measuring Bugs," Letters, Nov.-Dec., p. 17.
"Reexamining the Fault Density-Component Size Connection," Les Hatton, Mar.-Apr., pp. 89-97.
"What Makes Inspections Work?" Adam Porter and Lawrence Votta, Quality Time, Nov.-Dec., pp. 99-102.

R

RAPID APPLICATION DEVELOPMENT *also see Prototyping, Reuse*
"Managing Change for Rapid Development," Gene Forte, Manager, Mar.-Apr., pp. 120-122.
"Rapid Prototyping for Distributed Virtual Environments," Martin Stytz, Terry Adams, Brian Garcia, Steven Sheasby, and Brian Zurita, Sept.-Oct., pp. 83-92.

REAL-TIME SYSTEMS
"Ariane 5: Who Dunnit?" Bashar Nuseibeh, Soapbox, May-June, pp. 15-16.
"A Formal Method for Building Concurrent Real-Time Software," Colin Fidge, Peter Kearney, and Mark Utting, Mar.-Apr., pp. 99-106.

REENGINEERING *also see Legacy Systems*
"Reverse Engineering Project Seeking Participants," In the News, May-June, pp. 118.
"When Past Solutions Cause Future Problems," Carlo Pescio,

Soapbox, Sept.-Oct., pp. 19-21.

RELIABILITY *also see Formal Methods, Quality, Safety-Critical Systems*
"Ariane 5: Who Dunnit?" Bashar Nuseibeh, Soapbox, May-June, pp. 15-16.
"Help with Software Assessment" (review of *Software Assessment: Reliability, Safety, Testability*), Mladen Vouk, Bookshelf, Mar.-Apr., pp. 131-132.
"Qualitative and Quantitative Reliability Assessment," Karama Kanoun, Mohamed Kaaniche, and Jean-Claude Laprie, Mar.-Apr., pp. 77-87.
"Reexamining the Fault Density-Component Size Connection," Les Hatton, Mar.-Apr., pp. 89-97.
"A Watershed Software Reliability Book" (review of *Handbook of Software Reliability Engineering*), Boris Beizer, Bookshelf, July-Aug., pp. 114-115.

REQUIREMENTS *also see Design, Specification, Tools*
"A Cost-Value Approach for Prioritizing Requirements," Joachim Karlsson and Kevin Ryan, Sept.-Oct., pp. 67-74.

RESEARCH *also see Experimental Methods*
"Guidelines for Applying Research Results," Shari Lawrence Pfleeger, Quality Time, May-June, pp. 102-104.
"Share Your Results *and* Your Methods," Letters, Nov.-Dec., p. 10.
"Telling Good Numbers from Bad Ones," Robert Glass, Soapbox, July-Aug., pp. 15-16, 19.

RETRIEVAL METHODS *see Databases, Reuse*

REUSE *also see Business Issues, Integration, Tools*
"Professionalism through OO and Reuse," Sadakazu Watanabe, Insider, Jan.-Feb., pp. 26.

REVERSE ENGINEERING *see Legacy Systems, Portability, Reengineering*

RISK MANAGEMENT
"Estimates, Uncertainty, and Risk," Barbara Kitchenham and Stephen Linkman, May-June, pp. 69-74.
"Heuristic Risk Assessment Using Cost Factors," Raymond Madachy, May-June, pp. 51-59.
"How Experienced Project Managers Assess Risk," Tony Moynihan, May-June, pp. 35-41.
"Implementing Risk Management on Software Intensive Projects," Edmund Conrow and Patricia Shishido, May-June, pp. 83-89.
"An Information Architecture for Risk Assessment and Management," Paul Garvey, Douglas Phair, and John Wilson, May-June, pp. 25-34.
"Integrating Risk Assessment with Cost Estimation," Kari Kansala, May-June, pp. 61-67.
"Managing Risk in Software Maintenance," Robert Charette, Kevin MacG. Adams, and Mary White, May-June, pp. 43-50.
"The Project Scoping Gamble," Brian Lawrence and Bob Johnson, Manager, May-June, pp. 107-109.
"Putting Risk Management into Practice," Ray Williams, Julie Walker, and Audrey Dorofee, May-June, pp. 75-82.
"Risk Management is Project Management for Adults," Tim Lister, Point, May-June, pp. 20, 22.
"Risk Management May Not Be for Everyone," Marvin Carr, Counterpoint, May-June, pp. 21, 24.
"Software Risk Management" (guest editor's introduction), Barry Boehm and Tom DeMarco, May-June, pp. 17-19.
"Testing for Millennium Risk Management," Michael Feord, Toolbox, May-June, pp. 126-127, 130-131.

S

SECURITY *also see Encryption*
"Challenges in Computer Security Education," Cynthia Irvine, In the News, Sept.-Oct., pp. 110-111.
"Confessions of a Wily Science Guy (interview with Bill Cheswick)," In the News, Nov.-Dec., pp. 110-111.
"Firewalls: An Expert Roundtable," Sept.-Oct., pp. 60-66.
"A Flexible Security System for Using Internet Content," Nayeem Islam, Rangachari Anand, Trent Jaeger, and Josyula Rao, Sept.-Oct., pp. 52-59.
"The Fundamentals of Information Security," Charles Pfleeger, Quality Time, Jan.-Feb., pp. 15-16, 60.
"Intrusion Detection via System Call Traces," Andrew Kosoresow and Steven Hofmeyr, Sept.-Oct., pp. 35-42.
"Security and Privacy: Promising Advances" (guest editor's introduction), Charles Pfleeger and Deborah Cooper, Sept.-Oct., pp. 27-32.
"A Software Platform for Testing Intrusion Detection Systems," Nicholas Puketza, Mandy Chung, Ronald Olsson, and Biswanath Mukherjee, Sept.-Oct., pp. 43-51.
"Unlocking Key Issues in Security" (interview with Dorothy Denning), In the News, Sept.-Oct., pp. 108-109.

SOCIAL ISSUES
"Learning from the Real World," Jakob Nielsen, Interface, July-Aug., pp. 98-99.
"Making a Mark on the World," Alan Davis, From the Editor, Nov.-Dec., pp. 4, 6.
"Measuring Assets in the Information Age" (interview with William Davidow), In the News, Jan.-Feb., pp. 89-90.
"Surveying the Status: Women in Engineering," Julie Sheridan-Eng, In the News, May-June, pp. 116.
"Why Build Software?" Alan Davis, From the Editor, Jan.-Feb., pp. 4-6.
"Words of Wisdom," Alan Davis, From the Editor, May-June, pp. 4-6.

SOFTWARE DESIGN/DEVELOPMENT *see Design, Development*

STANDARDS *see Quality, Process Improvement, Process Models*

T

TELECOMMUNICATIONS *see Networks*

TESTING *also see Quality, Reliability*
"Does Tool Criteria Tie Testers' Hands?," Letters, Nov.-Dec., pp. 12, 14.
"How Assertions Can Increase Test Effectiveness," Jeffrey Voas, Quality Time, Mar.-Apr., pp. 118-119, 122.
"Testing for Millennium Risk Management," Michael Feord, Toolbox, May-June, pp. 126-127, 130-131.
"Testing Title Suffers from Too Narrow a Focus" (review of *The Craft of Software Testing*), Gregory Wilson, Bookshelf, May-June, p. 123.

TOOLS
"Avoiding A Middleware Muddle," Jess Thompson, Toolbox, Nov.-Dec., pp. 92-95.
"Choosing a User Interface Development Tool," Laura Valaer and Robert Babb II, July-Aug., pp. 29-39.
"A Complete Software Engineering Environment," David Sharon and Tracey Anderson, Toolbox, Mar.-Apr., pp. 123-125.
"Does Tool Criteria Tie Testers' Hands?," Letters, Nov.-Dec.,

pp. 12, 14.
"Investing in a European Test-Tools Tome" (review of *CAST Report, Computer Aided Software Testing, 3rd edition*), Hans Schaefer, Bookshelf, Jan.-Feb., p. 86.
"Successfully Implementing Configuration Management," Alan Schamp and Heidi Owens, Toolbox, Jan.-Feb., pp. 98-101.
"Tool Support for Project Tracking," Steve McConnell, Best Practices, Sept.-Oct., pp. 119-120.
"Year 2000 Tool Classification Scheme," David Sharon, Toolbox, July-Aug., pp. 107-111.

U

USER INTERFACES
"Choosing a User Interface Development Tool," Laura Valaer and Robert Babb II, July-Aug., pp. 29-39.
"Creating Effective User Interfaces" (guest editor's introduction), Andrew Sears and Arnold Lund, July-Aug., pp. 21-24.
"Designing Interfaces for Programmers," Robin Jeffries, Interface, Nov.-Dec., pp. 89-91.
"Developing Software Using OVID," Dave Roberts, Dick Berry, Scott Isensee, and John Mullaly, July-Aug., pp. 51-57.
"A Framework for Search Interfaces," Ben Schneiderman, Interface, Mar.-Apr., pp. 18-20.
"How User Perceptions Influence Software Use," Michael Morris and Andrew Dillon, July-Aug., pp. 58-65.
"Jargon, Technospeak Blur Good Ideas," Grant Hillebrand, Letters, Nov.-Dec., p. 16.
"Let's Ask the Users," Jakob Nielsen, Interface, May-June, pp. 110-111.
"The Long and the Short of Interface Design" (review of *Designing Visual Interfaces*), Gregory Wilson, Bookshelf, Mar.-Apr., p. 132.
"Low-Effort, High-Payoff User Interface Reengineering," Catherine Plaisant, Anne Rose, Ben Schneiderman, and Ajit Vanniamparampil, July-Aug., pp. 66-72.
"A Model-Based Interface Development Environment," Angel Puerta, July-Aug., pp. 40-47.
"Something is Better than Nothing," Jakob Nielsen, Counterpoint, July-Aug., pp. 27-28.
"The Use and Misuse of Focus Groups," Jakob Nielsen, Interface, Jan.-Feb., pp. 94-95.
"Who Ya Gonna Call? You're on Your Own," Wayne Gray, Point, July-Aug., pp. 26, 28.

W

WORLD WIDE WEB *see Internet*

Y

YEAR 2000
"Slow Response to Year 2000 Problem" (interview with Capers Jones), In the News, May-June, pp. 114-115.
"Testing for Millennium Risk Management," Michael Feord, Toolbox, May-June, pp. 126-127, 130-131.
"Year 2000 Tool Classification Scheme," David Sharon, Toolbox, July-Aug., pp. 107-111.

1997 AUTHOR INDEX

A

Adams, Kevin MacG., see Charette, Robert, May-June.
Adams, Terry, *see Stytz, Martin, Sept.-Oct.*
Adams, Tom, "Analogy Breakdown," Letters, May-June, p. 12.
Anand, Rangachari, *see Islam, Nayeem, Sept.-Oct.*
Anderson, Tracey, *see Sharon, David, Mar.-Apr.*

B

Babb II, Robert, *see Valaer, Laura, July-Aug.*
Bach, James, "SE Education: We're on Our Own," Point, Nov-Dec., pp. 26, 28.
Barlas, Stephen, "BSA Pushes for Override of Encryption Guidelines," In the News, Mar.-Apr., p. 136 ♦ "DTV Agreement Good for Software Developers," In the News, Jan.-Feb., pp. 88, 93 ♦ "Proposed Amendment May Keep Patent Applications under Wraps," In the News, July-Aug., p. 104 ♦ "Schedule for World Software Tariff Cuts Imminent," In the News, Mar.-Apr., p. 137.
Beckman, Kathy, Neal Coulter, Soheil Khajenoori, and Nancy R. Mead, "Collaborations: Closing the Industry–Academia Gap," Nov.-Dec., pp. 49-57.
Beizer, Boris, "Cleanroom Process Model: A Critical Examination," Soapbox, Mar.-Apr., pp. 14-16 ♦ "A Watershed Software Reliability Book" (review of *Handbook of Software Reliability Engineering*), Bookshelf, July-Aug., pp. 114-115.
Berry, Dick, *see Roberts, Dave, July-Aug.*
Bertelsen, Olav W., "Toward a Unified Field of SE Research and Practice," Nov.-Dec., pp. 87-88.
Binder, Robert, "Can a Manufacturing Quality Model Work for Software?" Quality Time, Sept.-Oct., pp. 101-102, 105.
Boasson, Maarten, "The Foolishness of Fashion," Insider, July-Aug., pp. 18.
Boehm, Barry, and Tom DeMarco, "Software Risk Management" (guest editor's introduction), May-June, pp. 17-19.
Boyer, Kenneth, "Orienting Cleanroom Analysis and Design," Letters, July-Aug., pp. 13-14.
Britcher, Robert, "Hobson's Choice, Cleanroom Style," Letters, July-Aug., pp. 12-13.

C

Carr, Marvin, "Risk Management May Not Be for Everyone," Counterpoint, May-June, pp. 21, 24.
Carter, David, *see Mead, Nancy, Nov.-Dec.*
Charette, Robert, Kevin MacG. Adams, and Mary White, "Managing Risk in Software Maintenance," May-June, pp. 43-50.
Charles, John, "Snapshots from Industry," In the News, May-June, pp. 112-113, 120-121 ♦ "Web Interests Tangle over DNS Proposal," In the News, July-Aug., pp. 100-101, 105 ♦ "Will Linking Battle Unravel the Web?," In the News, Sept.-Oct., pp. 106-107 ♦ "Internet2 Promises Radical Change," In the News, Nov.-Dec., pp. 108-109, 112.
Charron, Frank, *see Voas, Jeffrey, July-Aug.*
Chuang, Huei, *see Lee, Dik, Mar.-Apr.*
Chung, Mandy, *see Puketza, Nicholas, Sept.-Oct.*
Coplien, James, "Idioms and Patterns as Architectural Literature," Jan.-Feb., pp. 36-42.
Coulter, Neal, *see Beckman, Kathy, Nov.-Dec.*
Cox, Brad, "Superdistribution and the Economics of Bits," Manager, Jan.-Feb., pp. 22-24.
Cunningham, Ward, *see Kerth, Norman, Jan.-Feb.*
Cusick, James, *see Tepfenbart, William, Jan.-Feb.*

D

Dakin, Karl, "What If There Were No Software Piracy?," Softlaw, Jan.-Feb., pp. 20-21 ♦ "'Software 'Engineer'? Time Will Tell," Softlaw, May-June, pp. 105-106.
Dart, Philip, Lorraine Johnston, Cameron Schmidt, and Liz Sonenberg, "Developing an Accredited Software Engineering

Program," Nov.-Dec., pp. 66-70.
Davis, Alan, "Between Scylla and Charybdis," From the Editor, Sept.-Oct., pp. 4-6 ♦ "Making a Mark on the World," From the Editor, Nov.-Dec., pp. 4, 6 ♦ "Software's Future Is in the Cards," From the Editor, July-Aug., pp. 4-8 ♦ "Words of Wisdom," From the Editor, May-June, pp. 4-6 ♦ "Why Build Software?" From the Editor, Jan.-Feb., pp. 4-6.
Dawson, Ray, and Ron Newsham, "Introducing Software Engineers to the Real World," Nov.-Dec., pp. 37-43.
Deck, Michael, "A Truce? Reentering Cleanroom," Letters, Sept.-Oct., pp. 8-12.
DeMarco, Tom, *see Boehm, Barry, May-June.*
DePasquale, Mike, "Who's Really to Blame for Blown Schedules?," Letters, May-June, p. 11.
Diaz, Michael, and Joseph Sligo, "How Software Process Improvement Helped Motorola," Sept.-Oct., pp. 75-81.
Diaz-Herrera, Jorge L., *see Powell, Gerald M., Nov.-Dec.*
Dillon, Andrew, *see Morris, Michael, July-Aug.*
Dorofee, Audrey, *see Williams, Ray, May-June.*

E

Ebert, Christof, "The Road to Maturity: Navigating between Craft and Science," Nov.-Dec., pp. 77-82.
Eickelman, Nancy, "Faulty Assumptions? Quality vs. Value," Letters, Mar.-Apr., pp. 10-12.
Etlinger, Hank, "OO Analysis and Design Basics" (review of *The Object Primer: The Application Developer's Guide to Object-Orientation*), Bookshelf, Mar.-Apr., pp. 130-131.

F

Fenton, Norman, *see Hall, Tracy, Mar.-Apr.*
Feord, Michael, "Testing for Millennium Risk Management," Toolbox, May-June, pp. 126-127, 130-131.
Ferguson, Robert, "Bringing Function Points Down to Earth" (review of *Measuring the Software Process: A Practical Guide to Functional Measurements*), Bookshelf, Jan.-Feb., pp. 87.
Fidge, Colin, Peter Kearney, and Mark Utting, "A Formal Method for Building Concurrent Real-Time Software," Mar.-Apr., pp. 99-106.
Forte, Gene, "Managing Change for Rapid Development," Manager, Mar.-Apr., pp. 120-122.
Frank, Karl, "Is Pipe Metaphor a Wash Out," Letters, Sept.-Oct., pp. 15-17.
Friedman, Michael, *see Voas, Jeffrey, July-Aug.*
Fritz, Robert, "The Programmer...Fishing?" Letters, Sept.-Oct., pp. 14-15.
Furey, Sean, "Why We Should Use Function Points," Point, Mar.-Apr., pp. 28, 30.

G

Garcia, Brian, see Stytz, Martin, Sept.-Oct.
Garlan, David, *see Monroe, Robert, Jan.-Feb.*
Garvey, Paul, Douglas Phair, and John Wilson, "An Information Architecture for Risk Assessment and Management," May-June, pp. 25-34.
Glass, Robert, "Telling Good Numbers from Bad Ones," Soapbox, July-Aug., pp. 15-16, 19.
Goguen, Joseph, *see Luqi, Jan.-Feb.*
Gougher, Robert, "Shaping a Net that Serves Us All" (review of *Civilizing Cyberspace*), Bookshelf, Sept.-Oct., pp. 117.
Gray, Wayne, "Who Ya Gonna Call? You're on Your Own," Point, July-Aug., pp. 26, 28.

H

Hall, Tracy, and Norman Fenton, "Implementing Effective Software Metrics Programs," Mar.-Apr., pp. 55-65.
Hatton, Les, "*N*-Version Design versus One Good Version," Nov.-Dec., pp. 71-76 ♦ "Reexamining the Fault Density—Component Size Connection," Mar.-Apr., pp. 89-97.
Henderson-Sellers, Brian, "OO Project Management: The Need for Process," Manager, July-Aug., pp. 96-97.
Hilburn, Thomas B., "Software Engineering Education: A Modest Proposal," Nov.-Dec., pp. 44-48.
Hillebrant, Grant, "Jargon, Technospeak Blur Good Ideas," Letters, Nov.-Dec., p. 16.
Hofmeyr, Steven, *see Kosoresow, Andrew, Sept.-Oct.*

I

Irvine, Cynthia, "Challenges in Computer Security Education," In the News, Sept.-Oct., pp. 110-111.
Isensee, Scott, *see Roberts, Dave, July-Aug.*
Islam, Nayeem, Rangachari Anand, Trent Jaeger, and Josyula Rao, "A Flexible Security System for Using Internet Content," Sept.-Oct., pp. 52-59.

J

Jaeger, Trent, *see Islam, Nayeem, Sept.-Oct.*
Jalote, Pankaj, "Alternative Healing Perspective," Letters, Mar.-Apr., p. 13.
Jeffery, Ross, *see Offen, Raymond, Mar.-Apr.*
Jeffries, Robin, "Designing Interfaces for Programmers," Interface, Nov.-Dec., pp. 89-91.
Johnson, Bob, *see Lawrence, Brian, May-June.*
Johnson, Ralph, *see Mellor, Stephen, Jan.-Feb.*
Johnston, Lorraine, *see Dart, Philip, Nov.-Dec.*
Jololian, Leon, *see Rossak, Wilhelm, July-Aug.*
Jones, Capers, "Did Measurement Issue Miss the Mark?," Letters, Sept.-Oct., p. 8.
Juristo, Natalia, "Building a New Software Design Paradigm" (review of *Beyond Programming: To a New Era of Design*), Bookshelf, July-Aug., pp. 116-117.
Juristo, Natalia, "Why the Dwarf King Died" (review of *King of the Seven Dwarfs: General Electric's Ambiguous Challenge to the Computer Industry*), Nov.-Dec., p. 104.

K

Kaaniche, Mohamed, *see Kanoun, Karama, Mar.-Apr.*
Kaner, Cem, and Brian Lawrence, "UCC Changes Pose Problems for Developers," Softlaw, Mar.-Apr., pp. 139-143.
Kanoun, Karama, Mohamed Kaaniche, and Jean-Claude LApr.ie, "Qualitative and Quantitative Reliability Assessment," Mar.-Apr., pp. 77-87.
Kansala, Kari, "Integrating Risk Assessment with Cost Estimation," May-June, pp. 61-67.
Karlsson, Joachim, and Kevin Ryan, "A Cost-Value Approach for Prioritizing Requirements," Sept.-Oct., pp. 67-74.
Kearney, Peter, *see Fidge, Colin, Mar.-Apr.*
Kerth, Norman, and Ward Cunningham, "Using Patterns to Improve Our Architectural Vision," Jan.-Feb., pp. 53-59.
Khajenoori, Soheil, *see Beckman, Kathy, Nov.-Dec.*
Kindlund, Erika, "Navigating the Applet-Browser Divide," Interface, Sept.-Oct., pp. 22-25.
Kirova, Vassilka, *see Rossak, Wilhelm, July-Aug.*
Kitchenham, Barbara, and Stephen Linkman, "Estimates, Uncertainty, and Risk," May-June, pp. 69-74 ♦ "The Problem

with Function Points," Counterpoint, Mar.-Apr., pp. 29, 31.
Klatt, Garth, "Parable or Mirror? In Praise of Beethoven," Letters, Sept.-Oct., pp. 12-14.
Kleinman, Neil, "Macworld: A Patient Perspective," In the News, Mar.-Apr., pp. 133, 137.
Kompanek, Andrew, *see Monroe, Robert, Jan.-Feb.*
Kosoresow, Andrew, and Steven Hofmeyr, "Intrusion Detection via System Call Traces," Sept.-Oct., pp. 35-42.

L

Laprie, Jean-Claude, *see Kanoun, Karama, Mar.-Apr.*
Lawrence, Brian, and Bob Johnson, "The Project Scoping Gamble," Manager, May-June, pp. 107-109.
Lawrence, Brian, *see Kaner, Cem, Mar.-Apr.*
Lawson, Harold, *see Rossak, Wilhelm, July-Aug.*
Lee, Dik, Huei Chuang, and Kent Seamons, "Document Ranking and the Vector-Space Model," Mar.-Apr., pp. 67-75.
Linkman, Stephen, *see Kitchenham, Barbara, May-June.*
Lister, Tim, "Risk Management is Project Management for Adults," Point, May-June, pp. 20, 22.
Lott, Christopher, "Breathing New Life into the Waterfall Model," Manager, Sept.-Oct., pp. 103-105.
Luqi, and Joseph Goguen, "Formal Methods: Promises and Problems," Jan.-Feb., pp. 73-85.
Lutz, Michael, *see Mead, Nancy, Nov.-Dec.*
Lutz, Mike, "A Guide that Leaves You Stranded in the Wilderness" (review of *Executive Guide to Preventing Information Technology Disasters*), Bookshelf, May-June, p. 124.

M

Madachy, Raymond, "Heuristic Risk Assessment Using Cost Factors," May-June, pp. 51-59.
Matsubara, Tomoo, "Instability and Uncertainty Are Our Challenge," Nov.-Dec., pp. 83-84.
McConnell, Steve, "Achieving Leaner Software," Best Practices, Nov.-Dec., pp. 128-127 ♦ "Annualized Software Delivery," Best Practices, Jan.-Feb., pp. 104-103. "Gauging Software Readiness with Defect Tracking," Best Practices, May-June, pp. 136-135 ♦ "The Programmer Writing," Best Practices, July-Aug., pp. 120-119 ♦ "Software's Ten Essentials," Best Practices, Mar.-Apr., pp. 144-143 ♦ "Tool Support for Project Tracking," Best Practices, Sept.-Oct., pp. 120-119.
McCracken, W. Michael, "SE Education: What Academia Can Do," Counterpoint, Nov.-Dec., pp. 27, 29.
McGraw, Gary, *see Voas, Jeffrey, July-Aug.*
Mead, Nancy R., *see Beckman, Kathy, Nov.-Dec.*
Mead, Nancy, Carter, David, and Lutz, Michael, "The State of Software Engineering Education and Training" (guest editor's introduction), Nov.-Dec., pp. 22-25.
Mellor, Stephen, and Ralph Johnson, "Why Explore Object Methods, Patterns, and Architectures?" (guest editor's introduction), Jan.-Feb., pp. 27-30.
Mellor, Stephen, *see Shlaer, Sally, Jan.-Feb.*
Melton, Ralph, *see Monroe, Robert, Jan.-Feb.*
Meredith, Denis, "Putting Code in Its Place," Letters, May-June, p. 14.
Miller, Keith, *see Voas, Jeffrey, July-Aug.*
Milutinovic, Veljko, *see Tartalja, Igor, May-June.*
Monroe, Robert, Andrew Kompanek, Ralph Melton, and David Garlan, "Architectural Styles, Design Patterns, and Objects," Jan.-Feb., pp. 43-52.
Morris, Michael, and Andrew Dillon, "How User Perceptions Influence Software Use," July-Aug., pp. 58-65.
Moynihan, Tony, "How Experienced Project Managers Assess Risk," May-June, pp. 35-41.
Mukherjee, Biswanath, *see Puketza, Nicholas, Sept.-Oct.*
Mullaly, John, *see Roberts, Dave, July-Aug*
Myers, Ware, *see Putnam, Lawrence H., Nov.-Dec.*

N

Nichols, Kenneth, "Blown Schedules: Debatable 'Implications,'" Letters, Mar.-Apr., pp. 10.
Nielsen, Jakob, "Learning from the Real World," Interface, July-Aug., pp. 98-99 ♦ "Let's Ask the Users," Interface, May-June, pp. 110-111 ♦ "Something is Better than Nothing," Counterpoint, July-Aug., pp. 27-28 ♦ "The Use and Misuse of Focus Groups," Interface, Jan.-Feb., pp. 94-95.
Nuseibeh, Bashar, "Ariane 5: Who Dunnit?," Soapbox, May-June, pp. 15-16.

O

O'Neill, Don, "Issues in Software Inspection," Soapbox, Jan.-Feb., pp. 18-19.
Offen, Raymond, and Ross Jeffery, "Establishing Software Measurement Programs," Mar.-Apr., pp. 45-53.
Olsson, Ronald, *see Puketza, Nicholas, Sept.-Oct.*
Owens, Heidi, *see Schamp, Alan, Jan.-Feb.*

P

Pescio, Carlo, "When Past Solutions Cause Future Problems," Soapbox, Sept.-Oct., pp. 19-21.
Pezzé, Mauro, "The Maturity Of Software Engineering," Nov.-Dec., p. 86.
Pfleeger, Charles, "The Fundamentals of Information Security," Quality Time, Jan.-Feb., pp. 15-16, 60 ♦ with Deborah Cooper, "Security and Privacy: Promising Advances" (guest editor's introduction), Sept.-Oct., pp. 27-32.
Pfleeger, Shari Lawrence, "Assessing Measurement" (guest editor's introduction), Mar.-Apr., pp. 25-26 ♦ "Enduring Monument to Software Architecture" (review of *Software Architecture: Perspectives on an Emerging Discipline*), Bookshelf, July-Aug., pp. 118 ♦ "Guidelines for Applying Research Results," Quality Time, May-June, pp. 102-104 ♦ with Ross Jeffery, Bill Curtis, and Barbara Kitchenham, "Status Report on Software Measurement," Mar.-Apr., pp. 33-43.
Phair, Douglas, *see Garvey, Paul, May-June.*
Plaisant, Catherine, Anne Rose, Ben Schneiderman, and Ajit Vanniamparampil, "Low-Effort, High-Payoff User Interface Reengineering," July-Aug., pp. 66-72.
Porter, Adam, and Lawrence Votta, "What Makes Inspections Work?," Quality Time, Nov.-Dec., pp. 99-102.
Porter, Ken, "Why Build Software? An Important Question," Letters, May-June, p. 13.
Powell, Gerald M., Jorge L. Diaz-Herrera, Turner, "Achieving Synergy in Collaborative Education," Nov.-Dec., pp. 58-65.
Puerta, Angel, "A Model-Based Interface Development Environment," July-Aug., pp. 40-47.
Puketza, Nicholas, Mandy Chung, Ronald Olsson, and Biswanath Mukherjee, "A Software Platform for Testing Intrusion Detection Systems," Sept.-Oct., pp. 43-51.
Putnam, Lawrence H., and Ware Myers, "The Cost-Estimation Problem: How Solved Is It?" Manager, Nov.-Dec., pp. 105-107.

R

Rao, Josyula, *see Islam, Nayeem, Sept.-Oct.*
Reisman, Sorel, "Storm Offers Main Excitement at Biggest Comdex Yet," In the News, Jan.-Feb., pp. 91-92.
Rinn, Steve, "Another Look at Software 'Essentials'," Letters, July-

Aug., p. 14.
Roberts, Dave, Dick Berry, Scott Isensee, and John Mullaly, "Developing Software Using OVID," July-Aug., pp. 51-57.
Rose, Anne, *see Plaisant, Catherine, July-Aug.*
Rossak, Wilhelm, Vassilka Kirova, Leon Jololian, Harold Lawson, and Tamar Zemel, "A Generic Model for Software Architectures," July-Aug., pp. 84-92.
Ryan, Kevin, *see Karlsson, Joachim, Sept.-Oct.*

S

Salomon, Daniel, "Implementing a Pascal Compiler Using OOP" (review of *Object-Oriented Compiler Construction*), Bookshelf, Sept.-Oct., pp. 117-118 ♦ "Learning from Other's OO Mistakes" (review of *Pitfalls of Object-Oriented Development*), Bookshelf, Sept.-Oct., pp. 115-116.
Sanden, Bo, "Modeling Concurrent Software," Sept.-Oct., pp. 93-100.
Sanders, James, "Product, Not Process: A Parable," From the Editor, Mar.-Apr., pp. 6-8.
Sandoe, Kent, "Split Ends: Labor Shortage and the CS–IS Divide," Soapbox, Nov.-Dec., pp. 19-21.
Schaefer, Hans, "Investing in a European Test-Tools Tome" (review of *CAST Report, Computer Aided Software Testing, 3rd edition*)," Bookshelf, Jan.-Feb., p. 86.
Schaller, Nan C., "Class Act in Parallel Programming" (review of *Practical Parallel Programming*), Nov.-Dec., p. 107.
Schamp, Alan, and Heidi Owens, "Successfully Implementing Configuration Management," Toolbox, Jan.-Feb., pp. 98-101.
Schlesinger, Jacques, "Petrifying Survey of Jurassic Operating Systems" (review of *Operating Systems*), Bookshelf, May-June, p. 123.
Schmidt, Bryan, "The Art of Creating a Discipline," Letters, May-June, pp. 11-12.
Schmidt, Cameron, *see Dart, Philip, Nov.-Dec.*
Schneiderman, Ben, "A Framework for Search Interfaces," Interface, Mar.-Apr., pp. 18-20. ♦ *see Plaisant, Catherine, July-Aug.*
Schreiner, Keri, "The Appeal of Internet World Is Apparently Global," In the News, May-June, pp. 117.
Seamons, Kent, *see Lee, Dik, Mar.-Apr.*
Sears, Andrew, and Arnold Lund, "Creating Effective User Interfaces" (guest editor's introduction), July-Aug., pp. 21-24.
Sharon, David, and Tracey Anderson, "A Complete Software Engineering Environment," Toolbox, Mar.-Apr., pp. 123-125 ♦ "Year 2000 Tool Classification Scheme," Toolbox, July-Aug., pp. 107-111.
Sheasby, Steven, *see Stytz, Martin, Sept.-Oct.*
Sheridan-Eng, Julie, "Surveying the Status: Women in Engineering," In the News, May-June, pp. 116.
Shlaer, Sally, and Stephen Mellor, "Recursive Design of an Application-Independent Architecture," Jan.-Feb., pp. 61-72.
Sligo, Joseph, *see Diaz, Michael, Sept.-Oct.*
Sonenberg, Liz, *see Dart, Philip, Nov.-Dec.*
Song, Xiping, "Systematic Integration of Design Methods," Mar.-Apr., pp. 107-117.
Stallings, William, "Clarification? Review Revisited," Letters, July-Aug., p. 14.
Stranks, Mike, "And the Healing Continues...," Letters, Mar.-Apr., p. 12.
Stytz, Martin, Terry Adams, Brian Garcia, Steven Sheasby, and Brian Zurita, "Rapid Prototyping for Distributed Virtual Environments," Sept.-Oct., pp. 83-92.

T

Tartalja, Igor, and Veljko Milutinovic, "Classifying Software Based Cache Coherence Solutions," May-June, pp. 90-101.
Tepfenhart, William, and James Cusick, "A Unified Object Topology," Jan.-Feb., pp. 31-35.
Thompson, Jess, "Avoiding A Middleware Muddle," Toolbox, Nov.-Dec., pp. 92-95.
Tockey, Steve, "A Missing Link in Software Engineering," Nov.-Dec., pp. 31-36.
Trammell, Carmen, "Clearing the Cleanroom Air," Letters, July-Aug., pp. 10, 12.
Turner, Dennis J., *see Powell, Gerald M., Nov.-Dec.*

V

Valaer, Laura, and Robert Babb II, "Choosing a User Interface Development Tool," July-Aug., pp. 29-39.
Vanniamparampil, Ajit, *see Plaisant, Catherine, July-Aug.*
Voas, Jeffrey, "Can Clean Pipes Produce Dirty Water?," Quality Time, July-Aug., pp. 93-95 ♦ "How Assertions Can Increase Test Effectiveness," Quality Time, Mar.-Apr., pp. 118-119, 122 ♦ with Frank Charron, Gary McGraw, Keith Miller, and Michael Friedman, "Predicting How Badly 'Good' Software Can Behave," July-Aug., pp. 73-83.
Votta, Lawrence, *see Porter, Adam, Nov.-Dec.*
Vouk, Mladen, "Help with Software Assessment" (review of *Software Assessment: Reliability, Safety, Testability*), Bookshelf, Mar.-Apr., pp. 131-132.

W

Walker, Julie, *see Williams, Ray, May-June.*
Watanabe, Sadakazu, "Professionalism through OO and Reuse," Insider, Jan.-Feb., p. 26.
Webb, Todd, "Capitalizing on Our Experience," Nov.-Dec., pp. 84-85.
Wells, Timothy D., "Project Management: How Far Have We Come?" (review of *Managing a Programming Project—Process and People*), Bookshelf, May-June, p. 124 ♦ "Wonderful Book, But a Sad Commentary" (review of *Death March: The Complete Software Developer's Guide to Surviving "Mission Impossible" Projects*), Nov.-Dec., pp. 103-104.
White, Mary, *see Charette, Robert, May-June.*
Williams, Ray, Julie Walker, and Audrey Dorofee, "Putting Risk Management into Practice," May-June, pp. 75-82.
Wilson, Gregory, "First-Year C++ Text Outdated by Java" (review of *Programming with Class: A C++ Introduction to Computer Science*), Bookshelf, May-June, p. 122 ♦ "The Long and the Short of Interface Design" (review of *Designing Visual Interfaces*), Bookshelf, Mar.-Apr., p. 132 ♦ "One Thread Up, One Thread Down" (review of *Programming With Threads and Threads Primer: A Guide to Multi-threaded Programming*), Bookshelf, Sept.-Oct., p. 116 ♦ "Testing Title Suffers from Too Narrow a Focus" (review of *The Craft of Software Testing*), Bookshelf, May-June, p. 123.
Wilson, John, *see Garvey, Paul, May-June.*

Z

Zemel, Tamar, *see Rossak, Wilhelm, July-Aug.*
Zurita, Brian, *see Stytz, Martin, Sept.-Oct.*
Zvegintzov, Nicholas, "Navigating the Maintenance Waters at ICSM '96," In the News, Jan.-Feb., p. 93. ♦